

This chapter explains how to begin using the scan tool's basic setup and test functions. This information is specific to GM vehicles. For general scan tool functionality, see the user's manual appropriate to your diagnostic tool.

Selecting General Motors for testing takes you through one of two test routines.

- For 1989 and earlier vehicles, you must specify whether you are testing the antilock brake system (ABS) or any other systems (Figure 7-1).
- For 1990 and later vehicles, the test routine is the same for all systems (Figure 7-2).

**NOTE:**

The GM selection includes testing capabilities for GM, Hummer, and Workhorse vehicles.

For additional information on GM vehicles, see the following sections:

- “GM Testing” on page 137
- “GM Data Parameters” on page 435
- “GM Communications Problems” on page 731

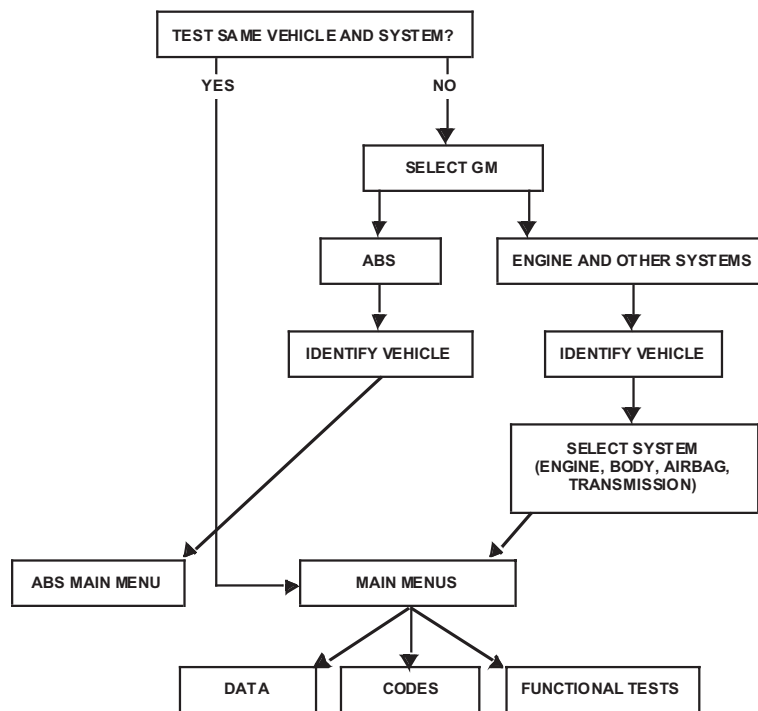


Figure 7-1 Basic GM test routine for 1989 and earlier vehicles

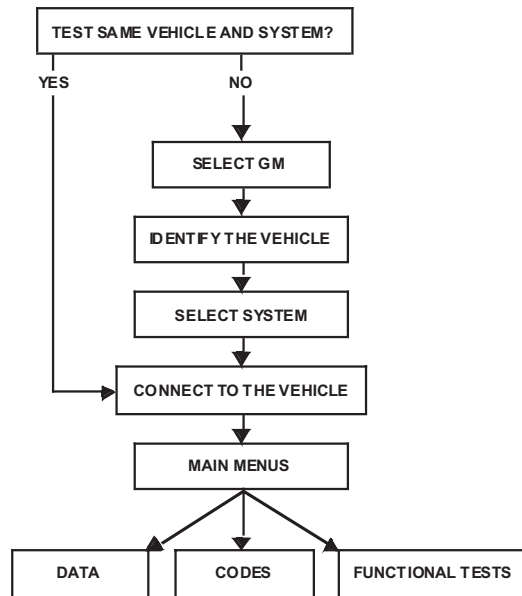


Figure 7-2 Basic GM test routine for 1990 and later vehicles

7.1 Selecting a System

When General Motors is selected from the manufacturer screen for 1989 and earlier vehicles, the System Selection menu displays (Figure 7-3) and offers two options:

- ABS
- ENGINE AND OTHER SYSTEMS

```

SELECT GM SYSTEM:
ABS
>ENGINE AND OTHER SYSTEMS
SCROLL AND PRESS Y TO SELECT SYSTEM.
  
```

Figure 7-3 Sample General Motors System Selection menu for 1989 and earlier vehicles

When General Motors is the manufacturer screen for 1990 and later vehicles, the system is selected after identifying the vehicle (see Figure 7-2). The System Selection menu for these vehicles offers all systems the vehicle is equipped with, including ABS (Figure 7-4).

```

SELECT SYSTEM          AIRBAG
>ENGINE
TRANSMISSION
ANTILOCK BRAKES
  
```

Figure 7-4 Sample General Motors System Selection menu for 1990 and later vehicles

7.1.1 Selecting Engine and Other Systems

Selecting ENGINE AND OTHER SYSTEMS (Figure 7-5) for 1989 and earlier vehicles presents codes and data for engine, body, transmission, airbag, and vehicle theft deterrent control systems, plus functional tests for engine, transmission, and transfer case control systems.

These tests comprise all of the available engine control tests from 1980–½ models through the current model year, as well as body, transmission, and airbag code-reading functions for some 1985 models through the current model year.

SELECT SYSTEM:	
>ENGINE	ABS (EXIT & RE-ID)
TRANSMISSION	
AIRBAG	VTD

Figure 7-5 Sample GM SELECT SYSTEM menu



NOTE:

Some vehicles only have engine tests available. In this case, the SELECT SYSTEM menu does not display and you go straight to the main menu for engine testing.

7.1.2 Selecting ABS

The ABS tests include trouble code reading for most systems, plus the ability to read data and clear codes for most systems.

Use the application tables on the following pages to identify the type of ABS used on a particular vehicle. Table 7-1 lists key questions for identifying systems.

Table 7-2 through Table 7-9 list applications for the different divisions:

- “Buick applications” on page 125
- “Cadillac applications” on page 126
- “Chevrolet (except trucks and vans) applications” on page 126
- “Chevrolet and GMC trucks and vans applications” on page 127
- “Geo and GM import applications” on page 127
- “Oldsmobile applications” on page 128
- “Pontiac applications” on page 128
- “Saturn applications” on page 129

Refer to the appropriate GM service manual for procedures and complete test and repair information for these systems.

Table 7-1 Key questions for identifying systems

QUESTION	HELP
IS IT RWAL?	Vehicles with 4-wheel antilock brakes have a large underhood hydraulic control unit attached with steel lines to the brake master cylinder. To distinguish 4WAL from RWAL, see Figure 7-6.
WITH TRACTION CONTROL?	The vehicle may have a switch on the console or dash to activate the system. Common badges are ASR and TCS.
MANUAL TRANS WITH A VCM?	The electronic control unit is located inside VCM (vehicle control module). The vehicle also has a hydraulic control unit underhood.
For 1999–2001 vehicles only:	
WITH ETS?	Vehicles (4th VIN W, N-Alero, and N-Grand Am) with Enhanced Traction System (ETS), have a traction off button on the dash or console.
WITH MAGNASTEER (MSVA)?	Vehicles with Magnetic Steering Variable Assist (MSVA or Magnasteer) have a 2-wire subharness from the steering rack assembly.
WITH ELECTRONIC VARIABLE ORIFICE (EVO)?	Vehicles with electronic variable orifice have wires going to the power steering pump.
WITH TIRE INFLATION MONITOR (TIM)?	Vehicles (4th VIN N) with Tire Inflation Monitors (TIM) have a reset switch located inside the fuse panel at the left side of the dash and a “low tire” lamp in the instrument cluster that comes on during a key on bulb check.
WITH ACTIVE HANDLING?	Vehicles with Active Handling have a suspension control switch in the center console.
WITH TRACTION CONTROL?	Vehicles (4th VIN C) with traction control have a switch located at the end of the shift lever. Vehicles (4th VIN H-Pontiac) with traction control have a switch in the center front of the passenger compartment, under the console. Vehicles (4th VIN H-Oldsmobile) with traction control have a disable switch under the left side of the instrument panel, on the knee bolster.



WARNING:

ABS diagnosis with the scan tool does not require opening the hydraulic system or disassembling any mechanical parts. However, complete ABS service may require opening the hydraulic system. ABS hydraulic systems operate on pressures of 2000 psi or higher. Always completely depressurize the system before opening any hydraulic connection. Most systems are depressurized by applying and releasing the brake pedal at least 25 times. Refer to the GM service manual instructions for complete information on hydraulic system service and safety.

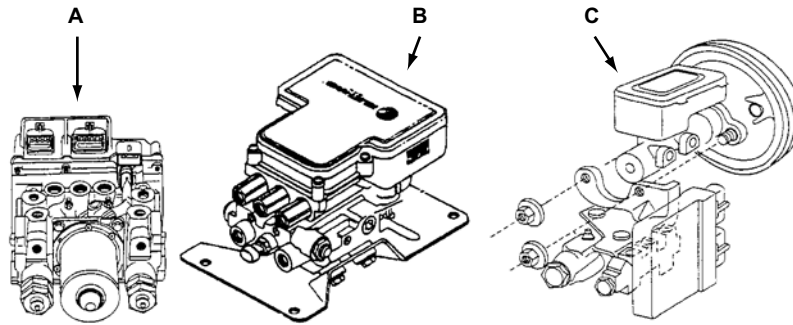


Figure 7-6 Difference between 4WAL and RWAL

- A—4WAL hydraulic control unit
 B—4WAL hydraulic control unit
 C—RWAL control valve assembly

Table 7-2 Buick applications

MODEL	YEAR	SYSTEM
Century	1994–98	Delphi ABS VI (non-integral)
	1999–2004	DBC 7 (non-integral)
Electra	1986–90	Teves Mark II (integral)
LeSabre	1991–95	Teves Mark IV (non-integral)
	1996–99	Delco/Bosch 5 (non-integral)
	2000–04	Delco/Bosch 5.3 Hybrid (non-integral)
Park Avenue	1986–90	Teves Mark II (integral)
	1991–95	Teves Mark IV (non-integral)
	1996–99	Delco/Bosch 5 (non-integral)
	2000–04	Delco/Bosch 5.3 Hybrid (non-integral)
Reatta	1988–90	Teves Mark II (integral)
Regal	1989–91	Delco Moraine III (integral)
	1992–98	Delphi ABS VI (non-integral)
	1999–2004	DBC 7 (non-integral)
Riviera	1988–90	Teves Mark II (integral)
	1992–93	Bosch 2 (non-integral)
	1995–99	Teves Mark IV (non-integral)
Roadmaster	1993–94	Bosch 2 (non-integral)
	1995–96	Bosch 5 (non-integral)
Skylark	1991–98	Delphi ABS VI (non-integral)
Wagon	1991–94	Bosch 2 (non-integral)
	1995–96	Bosch 5 (non-integral)

Table 7-3 Cadillac applications

MODEL	YEAR	SYSTEM
Allante	1987–92	Bosch 3 (integral)
	1993	Bosch 2 (non-integral)
Catera	1997	
	1998–2001	Bosch 5.3 (non-integral)
Concours	1994	Bosch 2 (non-integral)
	1995–96	Bosch 5 (non-integral)
	1997–99	Delco/Bosch 5 (non-integral)
	2000–01	Delco/Bosch 5.3 Hybrid (non-integral)
CTS	2003	DBC 7 (non-integral)
	2004	DBC 7.2 (non-integral)
DeVille	1986–90	Teves Mark II (integral)
	1991–93	Teves Mark IV (non-integral)
	1995–96	Bosch 5 (non-integral)
	1997–99	Delco/Bosch 5 (non-integral)
	2000–04	Delco/Bosch 5.3 Hybrid (non-integral)
El Dorado	1988–90	Teves Mark II (integral)
	1991–94	Bosch 2 (non-integral)
	1995–96	Bosch 5 (non-integral)
	1997–2001	Delco/Bosch 5 (non-integral)
Fleetwood	1986–90	Teves Mark II (integral)
	1990–94	Bosch 2 (non-integral)
	1995–96	Bosch 5 (non-integral)
Seville	1988–90	Teves Mark II (integral)
	1995–96	Bosch 5 (non-integral)
	1997–99	Delco/Bosch 5 (non-integral)
	2000–04	Delco/Bosch 5.3 Hybrid (non-integral)
SRX	2004	DBC 7.2 (non-integral)
XLR	2004	

Table 7-4 Chevrolet (except trucks and vans) applications (sheet 1 of 2)

MODEL	YEAR	SYSTEM
Beretta	1991–96	Delphi ABS VI (non-integral)
Camaro	1993–97	
	1998–2002	Bosch 5.3 (non-integral)
Caprice	1991–94	Bosch 2 (non-integral)
	1995–96	Bosch 5 (non-integral)
Cavalier	1992–99	Delphi ABS VI (non-integral)
	2000–04	DBC 7 (non-integral)
Corsica	1991–96	Delphi ABS VI (non-integral)

Table 7-4 Chevrolet (except trucks and vans) applications (sheet 2 of 2)

MODEL	YEAR	SYSTEM
Corvette	1986–95	Bosch 2 (non-integral)
	1995–96	Bosch 5 (non-integral)
	1997–2000	Delco/Bosch 5 (non-integral)
	2001–04	Delco/Bosch 5.3 Hybrid (non-integral)
Impala SS	1994	Bosch 2 (non-integral)
	1995–96	Bosch 5 (non-integral)
Impala	2000–01	Delphi ABS VI (non-integral)
Lumina	1992–2001	
Malibu	1997–99	
	2000–04	DBC 7 (non-integral)
Monte Carlo	1997–99	Delphi ABS VI (non-integral)
	2000–04	DBC 7 (non-integral)
Prizm	1998–2002	Lucas/Sumitomo Hybrid (non-integral)

Table 7-5 Chevrolet and GMC trucks and vans applications

MODEL	YEAR	SYSTEM
Aztek	2001–04	Bosch 5.3 (non-integral)
C/K Series, R/V Series	1988–93	Kelsey-Hayes RWAL
	1992–2004	Kelsey-Hayes 4WAL
Colorado/Canyon	2004	Advics 3-channel (non-integral)
G Series Van	1990–92	Kelsey-Hayes RWAL
	1993–2000	Kelsey-Hayes 4WAL
Hummer H2	2003–04	Bosch 5.3 (non-integral)
Lumina APV, Venture	1992–99	Delphi ABS VI (non-integral)
M/L Series Van	1990–92	Kelsey-Hayes RWAL
	1990–2004	Kelsey-Hayes 4WAL
P Series	1998–99	
P Series (Workhorse)	2000–2004	
Rendezvous	2002–04	Bosch 5.3 (non-integral)
S/T Series	1989–95	Kelsey-Hayes RWAL
	1991–2004	Kelsey-Hayes 4WAL
Silhouette	1992–99	Delphi ABS VI (non-integral)
	2000–04	DBC 7 (non-integral)
Trans Sport, Montana	1992–99	Delphi ABS VI (non-integral)
	2000–04	DBC 7 (non-integral)
Venture	2000–04	

Table 7-6 Geo and GM import applications (sheet 1 of 2)

MODEL	YEAR	SYSTEM
Metro	1995–2001	Delphi ABS VI (non-integral)
Prizm	1993–97	

Table 7-6 Geo and GM import applications (sheet 2 of 2)

MODEL	YEAR	SYSTEM
Tracker	1991–95	Kelsey-Hayes RWAL
	1996–98	Delphi ABS VI (non-integral)
	1999–2004	DBC 7 (non-integral)

Table 7-7 Oldsmobile applications

MODEL	YEAR	SYSTEM
88, Delta 88, LSS	1987–90	Teves Mark II (integral)
	1991–95	Teves Mark IV (non-integral)
	1996–99	Delco/Bosch 5 (non-integral)
98, 98 Regency	1986–90	Teves Mark II (integral)
	1991–95	Teves Mark IV (non-integral)
	1996	Delco/Bosch 5 (non-integral)
Achevia	1992–98	Delphi ABS VI (non-integral)
Alero	1999–2000	
	2001–04	DBC 7 (non-integral)
Aurora	1995–99	Teves Mark IV (non-integral)
	2000–03	Delco/Bosch 5.3 Hybrid (non-integral)
Calais	1991	Delphi ABS VI (non-integral)
Cutlass (N)	1997–99	
Cutlass Ciera	1994–96	
Cutlass Supreme	1989–91	Delco Moraine III (integral)
	1992–97	Delphi ABS VI (non-integral)
Intrigue	1999	Bosch 5.3 (non-integral)
	1999–2001	
Toronado, Trofeo	1988–90	Teves Mark II (integral)
	1991–93	Bosch 2 (non-integral)

Table 7-8 Pontiac applications (sheet 1 of 2)

MODEL	YEAR	SYSTEM
6000 STE, STE/AWD	1986–91	Teves Mark II (integral)
	1989–90	
Bonneville	1991–95	Teves Mark IV (non-integral)
	1996–99	Delco/Bosch 5 (non-integral)
	2000–04	Delco/Bosch 5.3 Hybrid (non-integral)
Bonneville SSE	1988–90	Teves Mark II (integral)
	1991–95	Teves Mark IV (non-integral)
Firebird	1993–97	Delphi ABS VI (non-integral)
	1998–2002	Bosch 5.3 (non-integral)
Grand Am	1991–2000	Delphi ABS VI (non-integral)
	2001–04	DBC 7 (non-integral)

Table 7-8 *Pontiac applications (sheet 2 of 2)*

MODEL	YEAR	SYSTEM
Grand Prix	1989–91	Delco Moraine III (integral)
	1992–97	Delphi ABS VI (non-integral)
	1998–2001	Bosch 5.3 (non-integral)
Sunbird	1992–94	Delphi ABS VI (non-integral)
Sunfire	1995–99	
	2000–04	DBC 7 (non-integral)
Vibe	2003–04	Lucas/Sumitomo Hybrid (non-integral)

Table 7-9 *Saturn applications*

MODEL	YEAR	SYSTEM
Ion	2003–04	Bosch 8.0 (non-integral)
Vue	2002–04	Bosch 5.3 (non-integral)

7.2 Identifying a Vehicle

Once the system to test is identified, you are prompted to identify the test vehicle by entering vehicle identification number (VIN) characters and answering questions.



NOTE:

Because of midyear manufacturing changes in engine computer systems, you should always enter a new identification when you test a different vehicle, even when two vehicles are the same year, model, and have the same engine and accessories installed.

The vehicle ID process begins from the Software Confirmation menu (Figure 7-7).

```
>GM DATABASE (1990-2004)          V 99.0

PRESS Y TO CONTINUE
```

Figure 7-7 *Sample Software Confirmation menu*



To identify a vehicle:

1. Press **Y** to confirm the software selection.
2. Do one of the following:
 - 1989 and earlier. Select **GENERAL MOTORS & SATURN** (Figure 7-8).

```
SCROLL TO SELECT A MANUFACTURER
>GENERAL MOTORS & SATURN (1980 TO 1999)
CHRYSLER (1983 TO 1999)
JEEP (1984 TO 1999)    GENERIC OBDII
```

Figure 7-8 *Sample Manufacturer Selection menu*

- 1990 and later. Select **VEHICLE SYSTEMS** (Figure 7-9).

```

SELECT:
>VEHICLE SYSTEMS
DEMONSTRATION

```

Figure 7-9 Sample Vehicle ID screen

A vehicle ID request screen similar to Figure 7-10 displays.

```

SELECT 10TH VIN CHARACTER
VIN: -----4-----
VEHICLE: 2004
ENGINE:

```

Figure 7-10 Sample model year request

- Enter all VIN characters and press **Y** or **N** to answer any questions.
The scan tool may ask a series of questions to determine the exact configuration of the test vehicle (Figure 7-10).

Table 7-10 Help with some vehicle identification questions

QUESTION	HELP
IS IT 4L80 E AUTOMATIC?	Vehicles with 4L80E transmissions do not have a transmission throttle valve cable connected to the throttle body.
IS IT TURBO?	Look for a turbocharger on the engine next to exhaust.
S/T PICKUP WITH MANUAL TRANSMISSION?	Is it Chevy S10 or GMC Sonoma with manual transmission?
LIGHT DUTY UNDER 8600 GVW?	GVW rating is located on the drivers door, near latch. Normally 1500 series or C10 Trucks.
POSTAL VEHICLE?	Small van equipped with a 2.5L 4-cylinder. Also known as LLV.
WITH OVERDRIVE TRANSMISSION?	Automatic transmission with 4 forward speeds.
SEQUENTIAL FUEL INJECTION?	Fires injectors same as ignition firing order. May say SFI on VECI sticker or valve cover.
WITH OBD-II EMISSIONS?	Found on VECI label.

When you are finished, a Vehicle ID Confirmation screen displays (Figure 7-11).

```

VIN: --C-C--1-3-----
VEHICLE: 2003 CHRYSLER SEBRING COUPE
ENGINE: 3.0L V6 MPI
PRESS Y TO CONTINUE. N FOR NEW ID.

```

Figure 7-11 Sample GM Vehicle ID Confirmation screen

- Press **Y** if the vehicle ID is correct or press **N** to identify a different vehicle.

7.2.1 Identifying 1980½ Models

The scan tool tests the following 1980½ GM models:

- Buick and Pontiac with a 3.8L, 2-barrel V6 engine
- Oldsmobile with a 4.3L, 2-barrel V8 engine

These are 49-state models only, not California vehicles.



To enter the ID for these models:

1. Select "A" at the first identification screen (Figure 7-12).

Although "A" is not the tenth VIN character for 1980 models, it is the correct model year code.

```

SELECT 10TH VIN CHARACTER      (1980=A)
VIN: -----A-----
VEHICLE: 1980
ENGINE:

```

Figure 7-12 10th VIN character for 1980½ model testing

Once a selection is made, the display also places the year code (A) in the correct position, which is the sixth VIN character (Figure 7-13). Only three division choices are available: 2 for Pontiac, 3 for Oldsmobile, and 4 for Buick.

```

SELECT 1ST VIN CHARACTER
VIN: 3----A-----
VEHICLE: 1980
ENGINE:

```

Figure 7-13 Year and division selections for a 1980-½ model

2. Select the correct number.

The screen now displays the complete model and engine identification (Figure 7-14).

```

VIN: 3---FA-----
VEHICLE: 1980 OLDSMOBILE
ENGINE: 4.3L V-8 2BBL
AUTO TRANSMISSION?  PRESS Y OR N.

```

Figure 7-14 Complete model and engine identification for 1980½ vehicles

3. Continue with the ID as for any other GM vehicle.

7.2.2 Vehicles without ABS Communication

Some GM vehicles have an ABS that cannot transmit codes or other data to the scan tool. Most of these vehicles do indicate system problems by flashing codes on the ABS warning lamp in the instrument cluster. A few models neither transmit codes nor flash them on a lamp.

The scan tool provides valuable diagnostic assistance for these vehicles by supplying code definitions through "Display ABS Codes" and by supplying troubleshooting tips. Enter the ID for one of these vehicles and a notification displays before the main menu opens (Figure 7-15).

NO ABS CONNECTOR AVAILABLE. USE ANY GM
12 PIN ADAPTER FOR 12V & GROUND. SEE
GM REFERENCE MANUAL FOR INSTRUCTIONS.

Figure 7-15 Sample no ABS data communication ability message

On a vehicle with no ABS codes or data and no available troubleshooter information, the following message appears (Figure 7-16).

NO INFORMATION OR TESTS AVAILABLE FOR
THIS VEHICLE.

Figure 7-16 Sample no ABS information available message

7.3 Connecting to the Vehicle

Once a vehicle has been identified, a scan tool connection message is shown, instructing you to use the supplied test adapters to connect the scan tool for testing ().

CONNECT GM-1 CONNECTOR TO 12-PIN ALDL
CONNECTOR LOCATED UNDER LEFT SIDE OF
DASH.
VEHICLE ID STORED.

Figure 7-17 Sample GM connection message

The following adapters are available to test GM vehicles:

- **GM-1**—(MT2500-10, Figure 7-18) The standard GM 12-pin adapter used for engine testing on all GM vehicles with 12-pin ALDL connectors.
- **GM-2**—(MT2500-11, not shown) The GM 5-pin adapter used on 1981–82 GM vehicles with 5-pin ALDL connectors.
- **MULTI-1**—(MT2500-90, Figure 7-19) This universal, multilead male connector adapter is required to test 1980½ Buick, Oldsmobile, and Pontiac systems, as well as 4WAL antilock brake systems and any vehicle with the 3-pin Isuzu diagnostic connector. This adapter may be used in place of the GM-2 adapter, but the molded 5-pin adapter is easier to connect to the vehicle.
- **OBD-II**—(MT2500-46, Figure 7-20) This 16-pin adapter is used for the 16-pin connector available on a few 1994–95 and most 1996 and later GM vehicles. The correct Personality Key™ device must be inserted into the OBD-II adapter for GM applications.

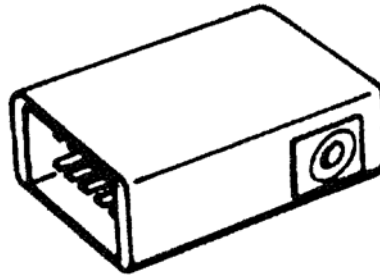


Figure 7-18 MT2500-10 GM-1 adapter

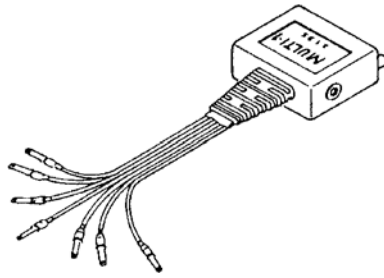


Figure 7-19 MT2500-90 MULTI-1 adapter

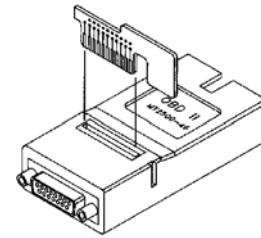


Figure 7-20 MT2500-46 OBD-II adapter with Personality Key™ device



NOTE:

The GM-2 (MT2500-11) adapter is similar to the GM-1.

On most GM vehicles, the test connector is called the assembly line diagnostic link (ALDL) connector. The ALDL is usually under the instrument panel, to the right or left side of the steering column. Some GM divisions call it the assembly line communication link (ALCL) connector. The 16-pin connector on some 1994–95 and most 1996 and later vehicles is called the data link connector (DLC). lists other locations of the ALDL connector on various GM vehicles.

Table 7-11 Sample GM test connector locations (sheet 1 of 2)

VEHICLE	CONNECTOR LOCATION
1988 and later Pontiac LeMans	Behind the access panel in the right side kick panel.
1981 Corvette, 5.7L (350-cid) with 4-barrel carburetor	Under the ashtray in the center console. Use the 5-pin adapter.
1982 Corvette, 5.7L (350-cid) with crossfire injection	Under the ashtray in the center console.
All Pontiac Fiero models	Under the lighter in the center console. Remove the trim panel for access.
1985 and later Chevrolet/Geo Spectrum and Storm and Isuzu I-Mark	Behind the right side kick panel. Use the MULTI-1 adapter. Adjacent orange 3-pin is for Storm airbag codes only.
All full-size vans	Under the dash or the driver seat.
Full-size van conversions	Sometimes relocated (along with PCM) to the driver side wall, behind the door.
1981–84 Cadillac 6.0L Eldorado and Seville	Below the ashtray on the bottom center of the dashboard console.

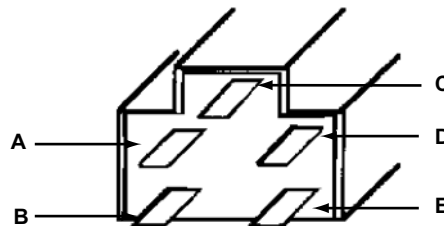
Table 7-11 Sample GM test connector locations (sheet 2 of 2)

VEHICLE	CONNECTOR LOCATION
1982–85 Cadillac RWD and FWD (longitudinal engine)	Behind the hush panel between the steering column and the center console.
1985 and later Cadillac FWD sedans (transverse engine)	Behind the hush panel at the center of the dashboard console below the ashtray.
1986 and later Eldorado and Seville	On a bracket next to the parking brake.
1987 and later Allante	Behind a carpeted hatch in the left side kick panel near the parking brake.
Early S-10 Pickup	Next to the floor, under the heater box.

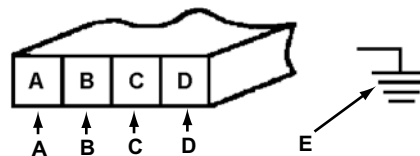
The following figures show other GM vehicle connectors that require the MULTI-1 test adapter, along with instructions for connecting them.

**NOTE:**

You can also use the MULTI-2-D adapter for Spectrum and Storm ().

**Figure 7-21** Connector for 1980½ Buick and Pontiac with 3.8L (VIN A) engine

- A—White MULTI-1 wire**
- B—Black MULTI-1 wire**
- C—Brown MULTI-1 wire**
- D—Green MULTI-1 wire**
- E—Red MULTI-1 wire**

**Figure 7-22** Connector for 1980½ Oldsmobile with 4.3L (VIN F) engine

- A—Brown MULTI-1 wire**
- B—Green MULTI-1 wire**
- C—White MULTI-1 wire**
- D—Red MULTI-1 wire**
- E—Black MULTI-1 wire to chassis ground**

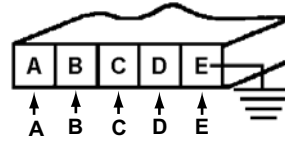


Figure 7-23 Connector for all 1981–82 models

- A—Brown MULTI-1 wire**
Not used on Cadillacs.
- B—Green MULTI-1 wire**
- C—Red MULTI-1 wire**
- D—White MULTI-1 wire**
- E—Black MULTI-1 wire**



Figure 7-24 Connector for Spectrum and Storm

- A—White MULTI-1 wire**
- B—Yellow or Green MULTI-1 wire**
- C—Black MULTI-1 wire**



NOTE:

The Storm ECM ALDL is white; the airbag ALDL is orange.

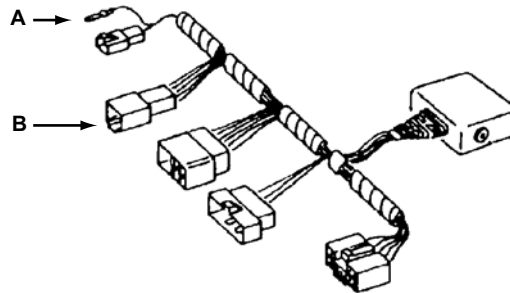


Figure 7-25 MT2500-42 MULTI-2 Asian adapter

- A—Ground**
- B—2-D**



To connect the scan tool to the test vehicle:

1. Be sure the ignition switch is off.
2. Follow the on-screen instructions and connect the scan tool data cable to the test vehicle.
 - a. Select the proper test adapter and attach it to the data cable.
 - b. Connect the other end of the data cable to the scan tool data port.

- c. Connect the test adapter to the vehicle.

Test adapters fit into the connectors only one way. Be sure the connector is installed securely.

3. Switch the ignition on.

4. Press **Y** to continue.

The main menu for the selected system displays, and the scan tool is connected to the data stream.

7.4 GM Vehicles with Partial or No Self-Diagnostic Capability

The General Motors vehicles listed in either do not have electronic engine control systems, or they have systems without self-diagnostic capabilities. By itself, the presence of an ALDL connector does not mean the vehicle has self-diagnostic capabilities. The vehicles in have limited self-diagnostic capabilities.

Table 7-12 *GM vehicles without self-diagnostic capability*

YEAR	MODELS
All	Diesel passenger cars
Pre 1981	All models, except 1980 4.3L Olds (VIN code F) and 1980 Buick and Pontiac 3.8L (VIN code A)
1981–82	All trucks
1983–85	All Federal (49-state) trucks, except: 2.5L, 4-cylinder with TBI (VIN code E) and 6.2L diesel (VIN code C)
1981–90	All LPG-powered vehicles
1981–90	6.2L diesel trucks (VIN code J)
1981–91	All 7.4L carbureted trucks (VIN code W) and 4.8L in-line 6-cylinder carbureted trucks (VIN code T)
1985–88	Chevrolet Nova (Troubleshooting tips available in Asian Import cartridge by identifying as same year Toyota with the 5th VIN as E and a 4-AC or 4ALC engine.)

Table 7-13 *GM vehicles with partial self-diagnostic capability*

YEAR	MODELS
1991–97	Some 6.2L and 6.5L diesel trucks (VIN code J) have an ALDL that offers transmission module communication only.
2003 and earlier	Some trucks with 6.5L diesel engine (8th VIN Y) with federal emissions offer transmission module communication only.